Zhixin Ling(凌致新)

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Educational Background

2016.09 - 2020.06 **Shanghai Jiao Tong Univiversity** **Computer Science and Technology**
GPA：3.82/4.30（20.55%） CET6：591

2020.09 - 2023.06 **Fudan University** **Software Engineering**
GPA：3.60/4.00 （25.53%） Excellent Academic Scholarship(2020-2021)

Academic Projects

Publications:

- *Multi-Level Region Matching for Fine-Grained Sketch-Based Image Retrieval.* **Zhixin Ling**, Zhen Xing, Jiangtong Li, Li Niu*. ***ACMMM2022*** (CCF A) [ATT1]
  Abs: 1. We extract region features via novel LAMA. 2.We attentionally produce global matching score.
- Conditional Stroke Recovery for Fine-Grained Sketch-Based Image Retrieval. **Zhixin Ling**, Zhen Xing, Xiangdong Zhou*. ***ECCV2022*** (CCF B) [ATT4]
  Abs: 1. Unsupervised stroke extraction. 2. Image-conditioned sketch recovery. 3. Double-anchor InfoNCE.
- *Zero-Shot Sketch-Based Image Retrieval with Structure-aware Asymmetric Disentanglement.* Jiangtong Li, **Zhixin Ling**, Li Niu*. ***CVIU2022*** (CCF B) [ATT2]
  Abs: We decouple image into structure and appearance and perform multi-space feature retreival.
- Few-shot Single-view 3D Reconstruction with Memory Prior Contrastive Network. Zhen Xing, Yijiang Chen, **Zhixin Ling**, Xiangdong Zhou*, Yu Xiang. ***ECCV2022*** (CCF B) [ATT9]
  Abs: a. Store shape prior for few-shot 3D construction. b. 3D-aware contrastive loss.
- *DoveNet: Deep Image Harmonization via Domain Verification*. Wenyan Cong, Jianfu Zhang, Li Niu, Liu Liu, **Zhixin Ling**, Weiyuan Li, Liqing Zhang*. ***CVPR2020*** (CCF A) [ATT3]

In-review Papers:

- PanoSwin: A Panoramic Shift Windowing Scheme for Panoramic Tasks. **Zhixin Ling**, Xiangdong Zhou*.[ATT5]
  Abs: 1. New shift windowing for 360 images。b.Conventional knowlege transfer to 360 images.
- *SKP: Selective Knowledge Preservation for Zero-Shot Sketch-Based Image Retrieval.* **Zhixin Ling**, Jian Zhou, Xiangdong Zhou*. [ATT6]
  Abs: 1. Selective knowledge preservation. 2. Category granularity inconsistency. 3. Sketch augmentation.

Additional projects:

We adapt YOLO framework for panoramic images(Data aug, inference, side padding, *etc.*) [ATT7]

Internship projects(ByteDance, computer vision internship, 2022.05 - Now):

- A survey on diffusion models for image generation [ATT8].
- As a member in color matching project: I analyze color distrubution in salient objects and texts.

Other Information

- Major skills: Computer vision, image retrieval, object detection, panoramic images, deep learning
- Social practice: As chief of Fudan Zhuxin Club, I've organized several public service projects.